

N^o 12,533



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COMPLETE SPECIFICATION.

Vaginal Syringes.

I, JOHN ROSS TROTT, of 618 South Seventh Street, in the City of Springfield, County of Sangamon, State of Illinois, United States of America, Physician, do hereby declare the nature of this invention, and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

My invention relates to an improvement in vaginal syringes, which is adapted to be self retaining, having for its object the prevention of discomfort and fatigue: and it consists in certain features of novelty to be hereinafter described, and then particularly pointed out in the claims.

10 In the accompanying drawings:—

Figure 1 is a perspective view showing the parts assembled and the device complete.

Figure 2 is a longitudinal section thereof.

15 Figure 3 shows a modified form when the speculum shaped body is open at the flared end and

Figure 4 is a rear view.

Referring to the accompanying drawings; A represents a hollow enclosed flared and speculum shaped body made of hard rubber and extending up from its flared closed end a , to form the tube portion a^1 rounded at top and provided therein with the supply and discharge openings a^2 and a^3 through one of which is forced the fluids used in irrigating the canal while the other carries off the discharge.

20 The tube a^1 , is provided with parallel annular grooves B, that receive the stiffened elastic ends C of the surrounding inflatable rubber sheath or cover D which is thus securely held around the body of said tube portion a^1 , adjacent to the rounded perforated top of the same. Normally the rubber sheath or cover lies flush with the body of the tube and encloses the inflating opening or perforation E formed in said hollow tube under said sheath and communicating with the interior of the hollow body which forms an enclosed air chamber to receive the air through the end air inlet opening F in the flared closed end of the instrument. A supply tube I is detachably inserted in said inlet opening and is connected with an ordinary syringe air bulb (not shown), in order to inflate the enclosing sheath so that the same will grasp the walls of the vagina and hold the syringe in place, as will be readily apparent.

35 A supply and discharge tube H and G pass from the flared end of the syringe through the body thereof, and are fitted water tight in the supply and discharge openings a^2 and a^3 respectively in the top of the tube portion of the syringe. The said tubes conduct the water to and from the vagina continuously, as long as the irrigation is kept up.

40 In use the syringe is inserted in the vagina, the top end foremost, and as there are no interfering projections thereon the introduction will be easy and free from pain. After insertion air is forced through the tube I into the body of the syringe and the opening E so as to inflate the sheath as shown in dotted lines Figure 2, and as said sheath occupies the inner third of the vaginal duct it will by reason of the enlargement formed by the inflation thereof, adapt the syringe to be self retentive within the vagina. As the sheath comes in close contact with the walls 45 of the vagina, no fluid can escape upon the bed or clothing.

The medicine is projected through tube H and exhausted through waste tube G.

The advantage of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. By the 50 improved construction of the syringe, herein described, the inflatable sheath may

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Trott's Vaginal Syringes.

be secured in position very easily and effectively, the ends of said sheath being secured in the annular grooves B, in such a manner as to produce tight joints. The inflatable sheath may be easily replaced if broken or ruptured, and any one of the parts of the device may be replaced at a trifling cost.

I have shown a modified form (as seen in Figure 3) wherein the air is conveyed 5 to the inflatable sheath D by means of a direct pipe I, from the flaring end of the speculum shaped body. When such a pipe is used the said flaring end of the speculum shaped body is preferably made open.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I 10 claim is :—

1. In a syringe the combination of a hollow enclosed body having a rounded tube portion provided with top irrigating perforations and a side air passage or opening, and an inflatable sheath secured to said tube portion and enclosing said air passage, 15 substantially as set forth.

2. In a syringe, the combination of a hollow speculum shaped body having an enclosed air space and provided with a tube portion having top irrigating perforations and parallel annular grooves formed in the body thereof, a cylindrical inflatable sheath secured in said grooves around said tube portion, and means for inflating said sheath, and for conveying medicaments to the parts to be treated, 20 substantially as set forth.

3. In a vaginal syringe, the combination of a hollow speculum shaped body having an enclosed air space and provided with a tube portion having top irrigating perforations and a side air passage communicating with said air space, an inflatable sheath secured to said tube portion and enclosing said air opening, supply and 25 return tubes passing through said body and tightly fitting in said irrigating perforations, and an air inlet tube communicating with said air space, substantially as set forth.

Dated this 7th day of July 1892.

HERBERT J. ALLISON, 30
Agent for the Applicant.

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Fig. 1.

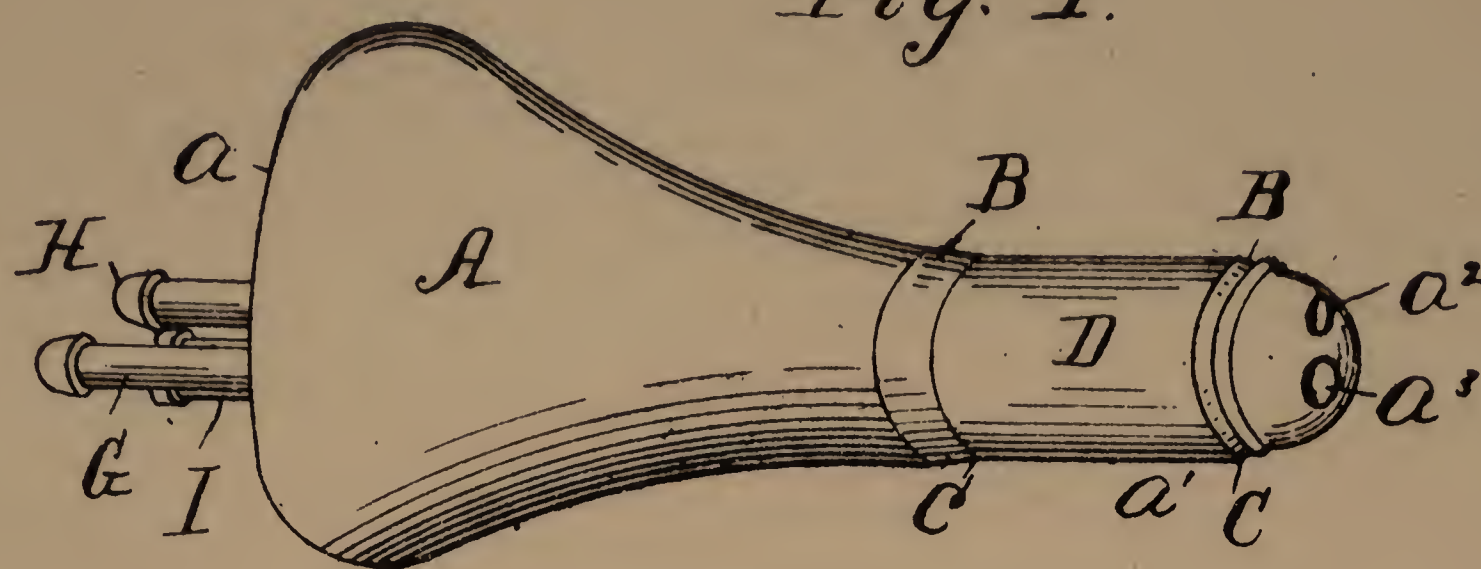


Fig. 2.

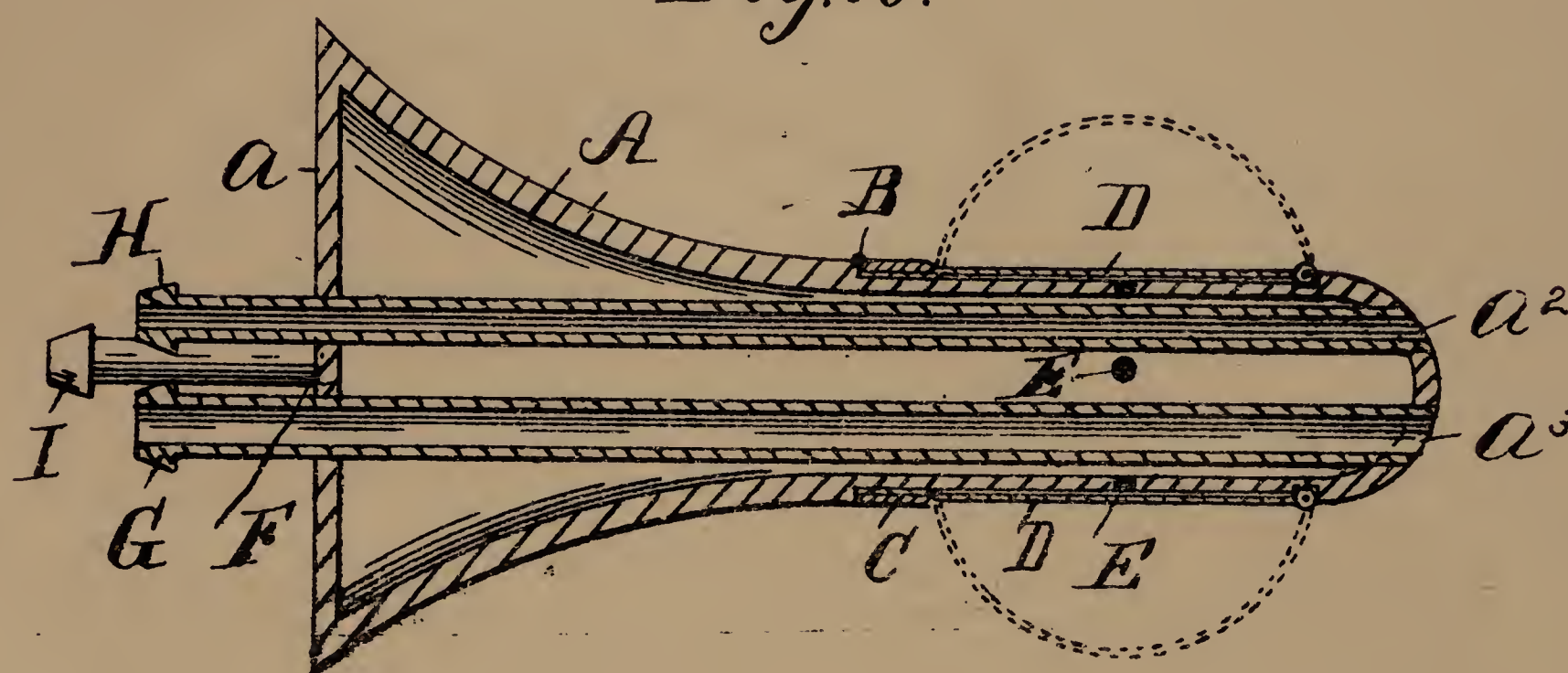


Fig. 3.

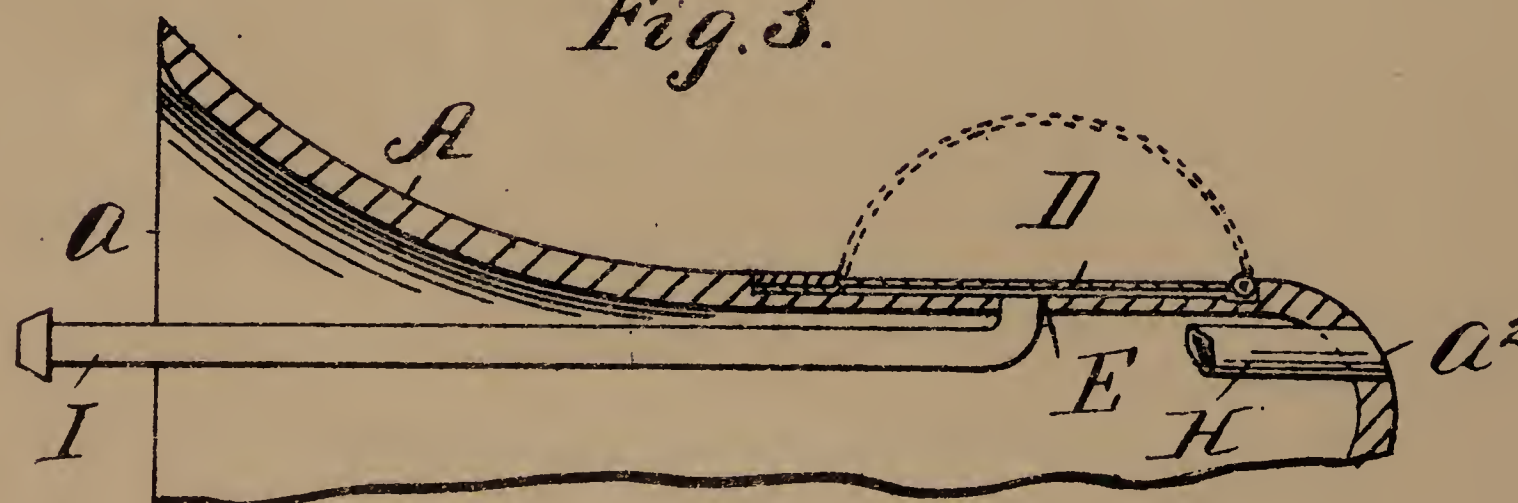
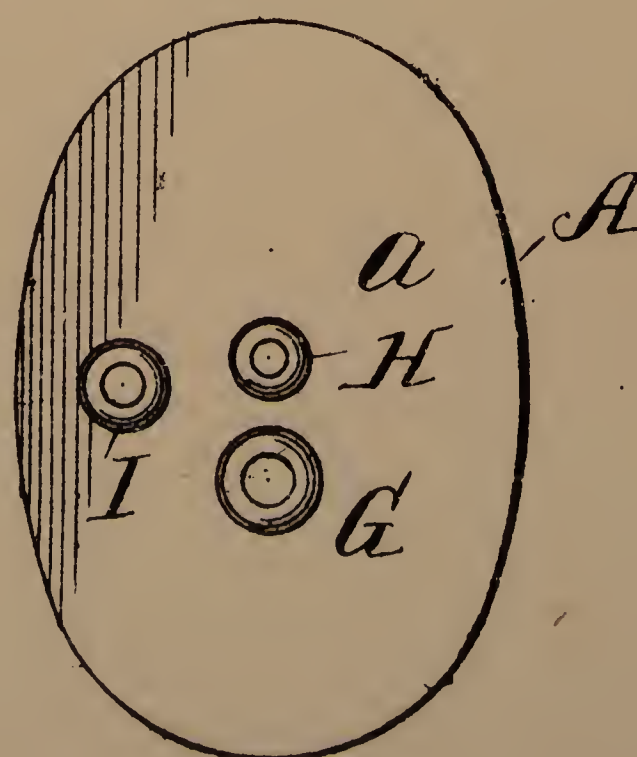


Fig. 4.



[This Drawing is a reproduction of the Original on a reduced scale.]

